

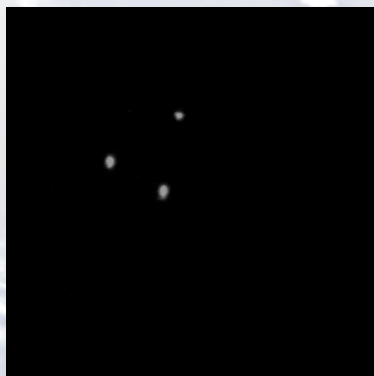


Glenn Research Center

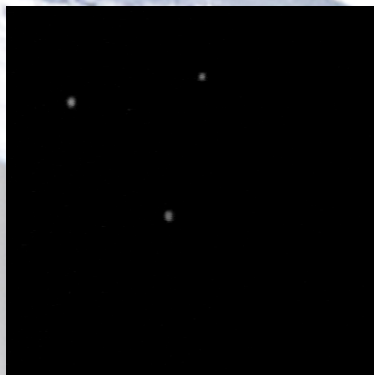


Properties of Flame Balls

- ◆ Exist for long periods of time, up to minutes
(First proof of unverified theory dating to 1940's)
- ◆ Drift apart slowly
(New theory being developed)
- ◆ Become smaller with time
(Theory predicts smaller size for mixture with less fuel)



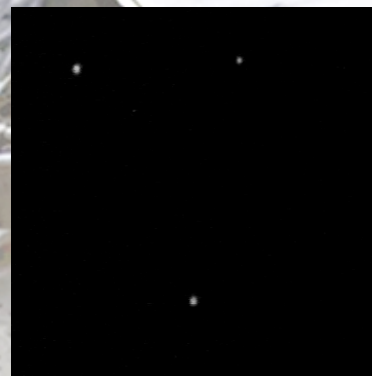
10 sec



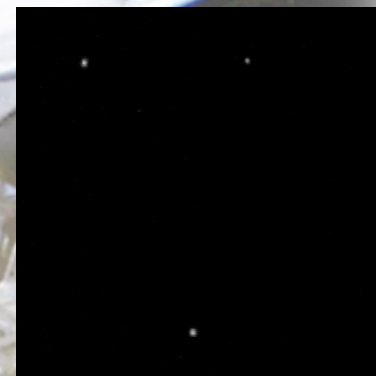
2 min



4 min



6 min



8 min

STS-83
4.9% H₂
9.8% O₂
85.3% CO₂
1 atm